

**Missouri Assessment Program  
Spring 2005**

**Mathematics**

**Released Items**

**Grade 4**



This picture means that you will use your ruler.



This picture means that you will use your coins.



This picture means that you will use your pattern blocks.

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2

In the long jump event, Ivy’s coach wrote the lengths of her jumps in the table below. Ivy would like to know the lengths of her jumps in inches. Complete the table below to show the lengths, in inches, that she jumped.

LENGTH OF IVY’S JUMPS

Jump	Length (in feet and inches)	Length (in inches)
1	3 feet	
2	2 feet, 4 inches	
3	3 feet, 10 inches	
4	2 feet, 9 inches	

6

Nancy wanted to spend several hours reading during the day. She read 8 pages during the first hour. Then she read 16 pages during the second hour and 24 pages during the third hour. Continue the pattern to find the number of pages Nancy read during the *sixth* hour.

In the box below, use words or numbers to show how you solved the problem and write the answer on the line.

\_\_\_\_\_ pages

Go On ►

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9

Taylor and Josh went on rides at the amusement park. Josh went on 11 rides. Taylor went on twice as many rides as Josh.

On the line below, write a number sentence to find the **total** number of rides Taylor and Josh rode.

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Solve the number sentence and write your answer on the line below.

\_\_\_\_\_ rides

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DO NOT WRITE HERE ↓

DO NOT WRITE HERE ↓

DO NOT WRITE HERE ↓

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# LIBRARY HELPER WANTED



## Directions

Do Number 10 about a librarian who wants a library helper. Show all of your work and write your answers directly in this book.

10

The school library gets very busy. The librarian wants a student to help her check out books in the library one day a week. The librarian's calendar shows the number of books checked out each day last month.

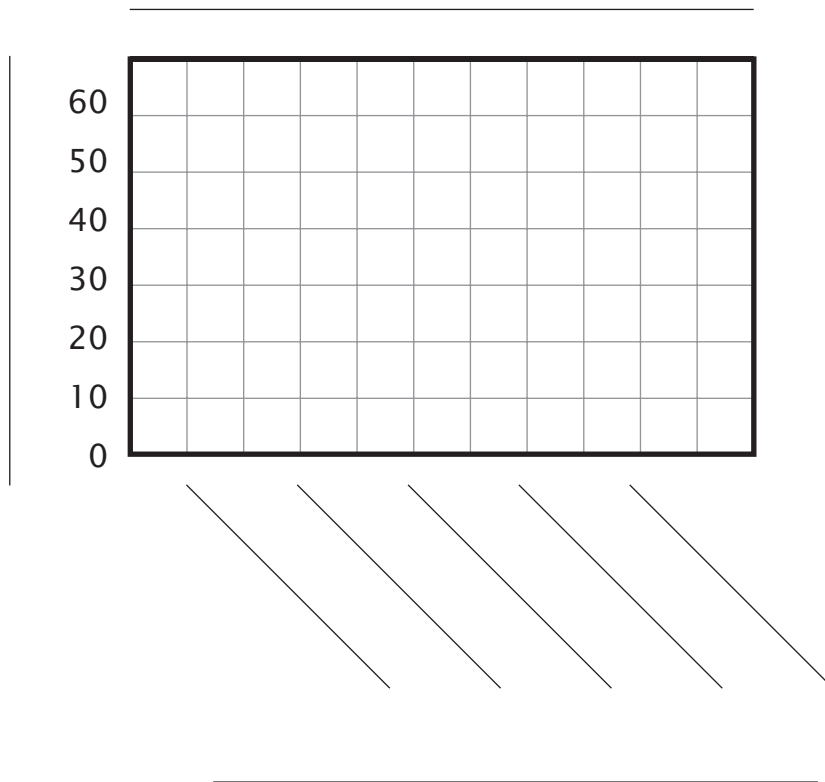
## CALENDAR

### NUMBER OF BOOKS CHECKED OUT

	Mon.	Tues.	Wed.	Thurs.	Fri.
Week 1	12	8	16	5	30
Week 2	7	10	15	12	8
Week 3	16	12	14	10	12
Week 4	10	20	15	13	10

Use the information from the calendar to create a graph on the grid below. In your graph, show the **total** number of books that were checked out each weekday last month. Be sure to:

- title the graph
- label each axis
- graph all the data



On the lines below, use information from the calendar **and** your graph to write a note to the librarian explaining on which day of the week a student helper is needed most.

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**STOP** 

**Directions**

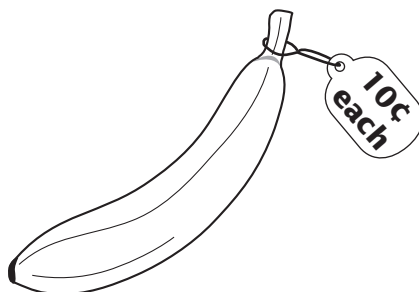
Do Number 1. Show all of your work and write your answers directly in this book.

**1**

Ben is making fruit baskets to sell at his school's Open House. The number of each type of fruit and its price are shown below.



14 oranges



12 bananas



21 apples

Ben needs to do the following:

- Make 5 fruit baskets
- Use all the pieces of fruit
- Put at least 1 of each type of fruit in each basket
- Make the price of each basket \$3.50 or less

In the box below, decide how to make the fruit baskets. Use words, pictures, or numbers to show your plan.

For each basket below, list the number of pieces of fruit and the total price.

**Basket 1**

\_\_\_\_\_orange(s)

\_\_\_\_\_banana(s)

\_\_\_\_\_apple(s)

Price \$ \_\_\_\_\_

**Basket 4**

\_\_\_\_\_orange(s)

\_\_\_\_\_banana(s)

\_\_\_\_\_apple(s)

Price \$ \_\_\_\_\_

**Basket 3**

\_\_\_\_\_orange(s)

\_\_\_\_\_banana(s)

\_\_\_\_\_apple(s)

Price \$ \_\_\_\_\_

**Basket 2**

\_\_\_\_\_orange(s)

\_\_\_\_\_banana(s)

\_\_\_\_\_apple(s)

Price \$ \_\_\_\_\_

**Basket 5**

\_\_\_\_\_orange(s)

\_\_\_\_\_banana(s)

\_\_\_\_\_apple(s)

Price \$ \_\_\_\_\_

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DO NOT WRITE HERE

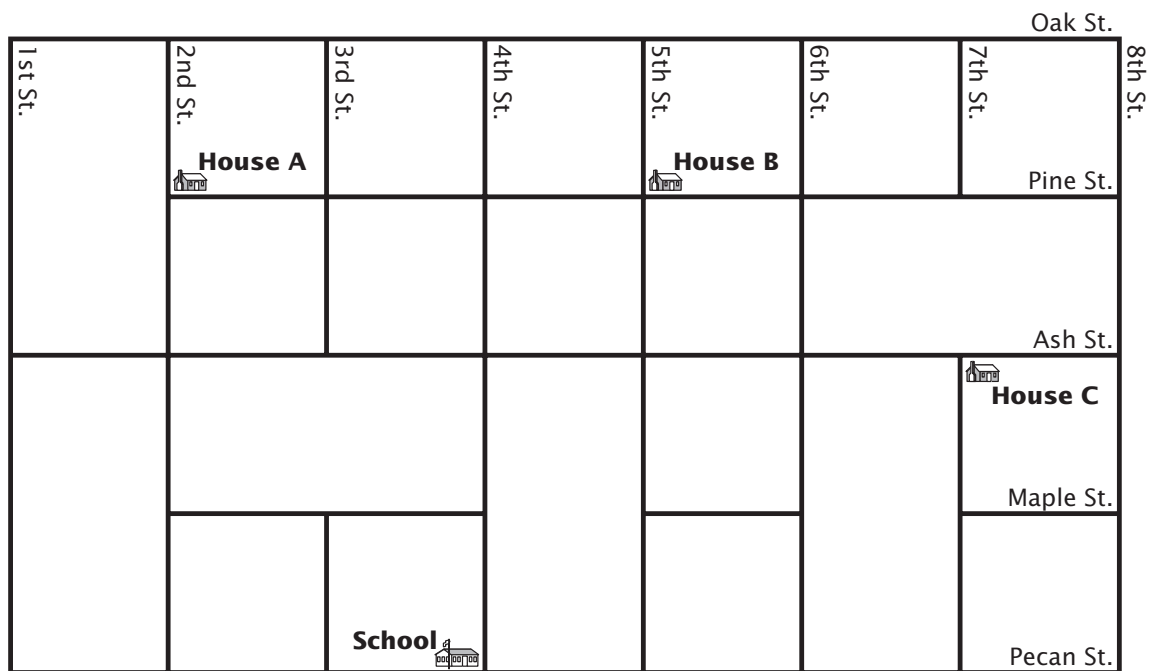
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5

Look at the map below.



Jesse's mom wants to move into the house that is the shortest distance to Jesse's school. On the line below, write which house is the best choice.

House \_\_\_\_\_

On the lines below, explain how you know this is the shortest route to school.

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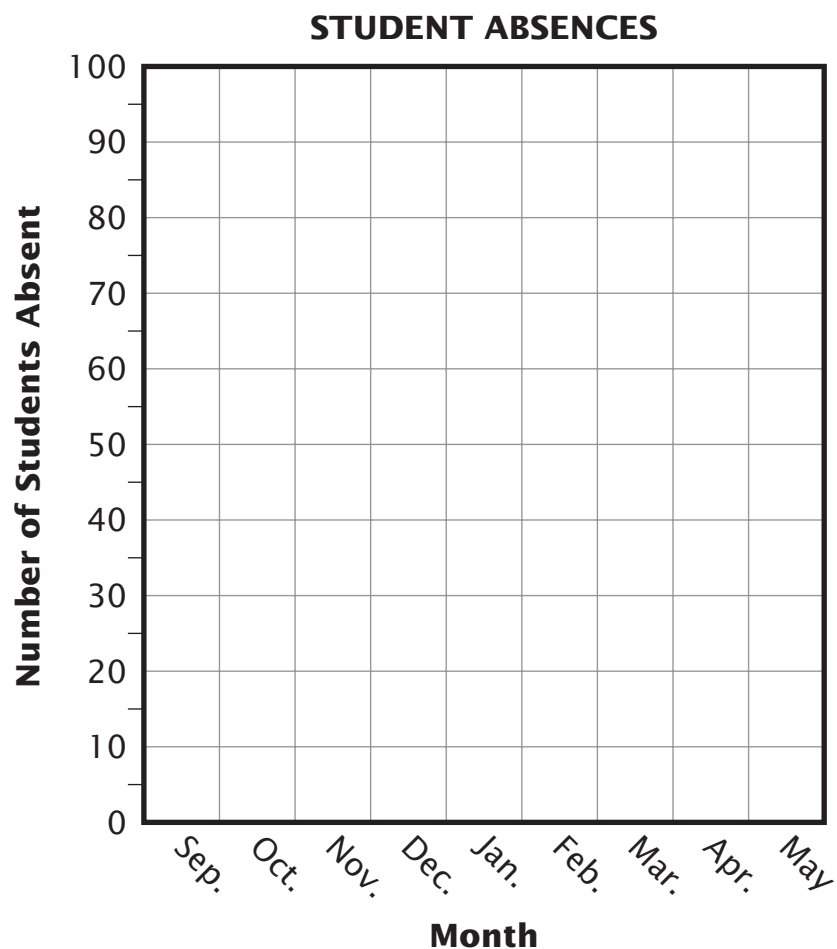
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- 7** The principal at Grove Elementary School kept a chart of the number of students absent each month during the school year. The results are shown below.

### STUDENT ABSENCES

Month	Number of Students Absent
September	13
October	30
November	55
December	60
January	70
February	88
March	62
April	50
May	20

On the grid below, create a **bar graph** to show the number of students absent each month.



*Go On ►*